

**REMARKS**

Reconsideration of the application as amended is respectfully requested.

The Examiner's communication in Paper No. 3, which includes an election requirement, is acknowledged. Paper No. 3 allowed thirty days from Oct. 22, 2001 for response. Accordingly, this response is timely submitted.

Claims 1 - 55 are pending. This amendment amends claim 36 and adds new claims 56 - 59. After this amendment, claims 1 - 59 are pending. Claim 36 is amended to correct a typographical error. New claims 56 - 59 are added to more clearly state and distinctly claim what I believe to be my invention. New claim 56 is believed to be generic to all of the species identified by the Examiner.

**Election of Species**

Applicant affirms that the various species 1a - 4e identified by the Examiner are patentably distinct. Applicant elects species 3a, identified by the Examiner as "directed toward the embodiment shown in FIG. 17 - 19 with the filter shown in FIG. 2" for prosecution. Claims 1 - 9, 13 - 19, 28 - 46, and 56 - 59 read on the elected species. Applicant believes that claim 56 is generic and respectfully requests that new claims 56 - 59 be examined along with the original claims of the elected species. Applicant respectfully requests rejoinder of the non-elected species if any generic claim should be

allowed.

### **Basis for New Claims**

The basis for new claims 56 - 59 is found in the specification as filed. References to the use of a single power amplifier are found from page 5 line 10 through page 21 line 9; in FIGS. 1 - 9, 13, 15, 17 - 19, and 22; and in claims 1 - 46. References to the use of a plurality of power amplifiers are found from page 29 line 1 through page 34 line 18; in FIGS. 20 and 21; and in claims 47 - 55. References to the use of at least one electronically variable reactive element are found at page 5 lines 17 - 19, page 21 lines 3 - 4, and page 27 lines 9 - 11. References to adaptation for tuning, matching, and modulation are found at page 5 lines 25 - 27; page 8 lines 24 - 27; page 9 lines 1 - 6; FIGS. 5, 6, 18, 19, and 21; and claims 2 - 4, 41 - 46, and 48 - 50.

### **Basis for Amended Claim 36**

Amendment of claim 36 corrects a typographical error. Attached hereto is a marked-up version of the changes made to this claim. The attached page is captioned "Version with markings to show changes made."

Basis for Amended Abstract

Amendment of the abstract places it on a separate page, as is required.  
The abstract is otherwise unchanged.

No new matter is added by the present amendments.

The applicant believes that the claims as amended are patentable over the prior art and respectfully requests that the claims as amended be allowed.

Any suggestions by the Examiner for improving the clarity and/or allowability of the claims would be appreciated.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

The following claims have been added:

56. An electronically tuned radio-frequency power-amplifier system, comprising one or more power amplifiers, each of said one or more power amplifiers having an intermediate output, and one or more output networks, said one or more output networks including one or more tuning inputs, a network output, and one or more reactive components being adapted to being electronically tuned by one or more tuning signals applied to said one or more tuning inputs.
57. An electronically tuned radio-frequency power amplifier as in claim 56, wherein said output network is adapted to be tuned to a fixed or variable frequency.
58. An electronically tuned radio-frequency power amplifier as in claim 56, wherein said output network is adapted to be adjusted to match a fixed or variable load impedance at the network output.
59. An electronically tuned radio-frequency power amplifier as in claim 56, wherein said output network is adapted to produce a modulated signal at the network output.

Claim 36 has been amended as follows:

36. (Amended) An electronically tuned radio-frequency power amplifier as in claim 33, further comprising a controller for ~~a~~ converting a modulation input into tuning signals for control of said electronically tuned network.

In the Abstract

The abstract has been amended by placing it on a page by itself. The wording was not changed.